2009, Mathematics - Grade 8

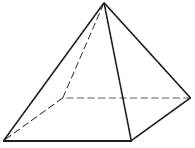
Question 2: Multiple-Choice

Reporting Category: Geometry

Standard: 8.G.7

This item does not allow use of a calculator

A square pyramid is shown below.



What is the total number of edges in a square pyramid?

A. 4

B. 5

C. 6

D. 8

2008, Mathematics - Grade 8

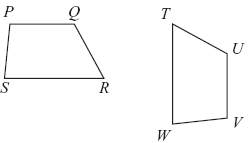
Question 23: Multiple-Choice

Reporting Category: Geometry

Standard: 8.G.2

This item allows use of a calculator

In the figure below, quadrilateral PQRS is congruent to quadrilateral VUTW?



Which of the following pairs of angles must be congruent?

A. Answer A

B. Answer B

C. Answer C

D. Answer D

2007, Mathematics - Grade 8

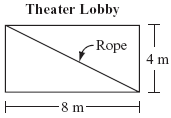
Question 6: Multiple-Choice

Reporting Category: Geometry

Standard: 8.G.4

This item does not allow use of a calculator

The floor of the lobby of a theater is shaped like a rectangle, as shown below.



Before a performance starts, a velvet rope is stretched diagonally across the lobby. Which of the following best describes the diagonal length of the lobby?

A. between 8 and 9 meters

B. between 9 and 10 meters

C. between 10 and 11 meters

D. between 11 and 12 meters

2007, Mathematics - Grade 8

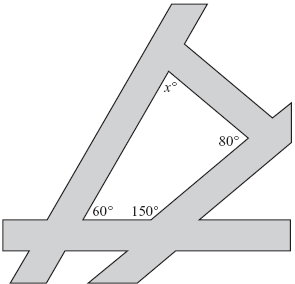
Question 25: Multiple-Choice

Reporting Category: Geometry

Standard: 8.G.1

This item allows use of a calculator

Intersecting sidewalks surround a playground shaped like a quadrilateral, as shown in the diagram below.



Based on the angle measures in the diagram, what is the value of x?

A. 70

B. 80

C. 120

D. 150

2006, Mathematics - Grade 8

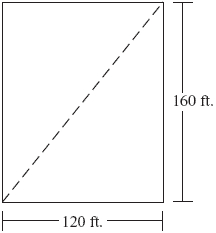
Question 25: Multiple-Choice

Reporting Category: Geometry

Standard: 8.G.4

This item allows use of a calculator

The diagram below shows the dimensions of a rectangular field.



What is the length of a diagonal of the field?

A. 120 ft.

B. 200 ft.

C. 394 ft.

D. 520 ft.

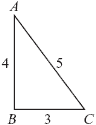
2006, Mathematics - Grade 8

Question 33: Multiple-Choice

Reporting Category: Geometry

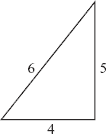
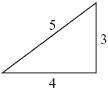
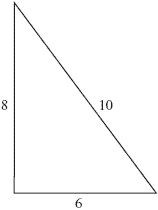
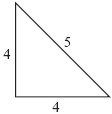
This item allows use of a calculator

Right triangle ABC and its dimensions are shown below.



Which of the following figures is similar to but not congruent to triangle ABC?

A. B.

  C. D. 

2005, Mathematics - Grade 8

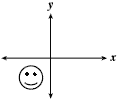
Question 5: Multiple-Choice

Reporting Category: Geometry

Standard: 8.G.6

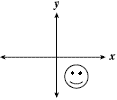
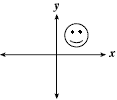
This item does not allow use of a calculator

The coordinate plane shown below has a figure in the third quadrant.

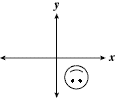
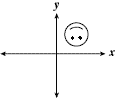


Which of the following shows the same figure after it has been reflected across the y-axis and then reflected across the x-axis?

A. C.

B. D.

2005, Mathematics - Grade 8

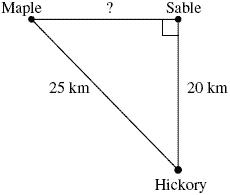
Question 30: Multiple-Choice

Reporting Category: Geometry

Standard: 8.G.4

This item allows use of a calculator

The roads connecting the three towns on the map below form a right triangle. Two of the distances are given.



Based on the distances given on the map, what is the distance between Maple and Sable?

A. 12 km

B. 15 km

C. 16 km

D. 19 km

2004, Mathematics - Grade 8

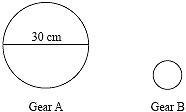
Question 2: Multiple-Choice

Reporting Category: Geometry

Standard: 8.G.2

This item does not allow use of a calculator

The circles below represent the gears of a bicycle. The diameter of Gear A is 30 centimeters. The ratio of the diameter of Gear A to the diameter of Gear B is 3:1.



What is the circumference, in centimeters, of Gear B?

A. 5π cm

B. 10π cm

C. 15π cm

D. 30π cm

Mathematics - Grade 8

Question 16: Multiple-Choice

Reporting Category: Geometry

Mei Ling gave the following description of a three-dimensional figure.

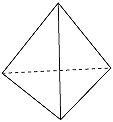
\* The solid has 6 faces.

\* The solid has 8 vertices.

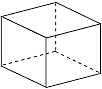
\* The solid has 12 edges.

Which of the following figures matches Mei Ling's description?

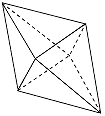
A.



B.



C.



D.

